

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Masterpiece Building Products, LLC. 1005 North Krome Avenue, Suite 123 Homestead, FL. 33030

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Santa Ana Mission Tiles, Toledo, Castilla, Marbella, Antigua Roof Tile

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 11.

The submitted documentation was reviewed by Alex Tigera.



NOA No.: 13-0923.06 Expiration Date: 02/06/19 Approval Date: 02/06/14 Page 1 of 11

ROOFING ASSEMBLY APPROVAL

Category: Roofing **Sub-Category:** Roofing Tiles

Material: Clay
Deck Type: Wood

1. SCOPE

This approves a system using Santa Ana Mission Tiles, Antigua, Toledo, Castilla and Marbella, as manufactured by Arcillas Santa Ana SA in Cucuta, Norte de Santander, Colombia and distributed by Masterpiece Building Products, LLC. and described in Section 2 of this Notice of Acceptance. For locations where the pressure requirements, as determined by applicable Building Code does not exceed the design pressure values obtained by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

Manufactured by Applicant	<u>Dimensions</u>	Test <u>Specifications</u>	Product <u>Description</u>
Santa Ana Mission Tile – Toledo	1 = 18" w = 6.5" - 5.5" min. ½" thick	ASTM C 1167	High profile, two-piece, barrel, clay roof tile equipped with one nail hole. For direct deck nail-on, mortar set or adhesive set applications.
Santa Ana Mission Tile – Castilla	l = 18" w = 8" - 6.5" min. ½" thick	ASTM C 1167	High profile extruded machine-made clay tiles equipped with one nail hole. For direct deck adhesive set applications.
Santa Ana Mission Tile – Marbella	l = 16" w = 8" min. ½" thick	ASTM C 1167	High profile, two-piece, barrel, clay roof tile equipped with one nail hole. For direct deck nail-on, mortar set or adhesive set applications.
Santa Ana Mission Tile - Antigua	l = 17.5" w = 7.5" min. ½" thick	ASTM C 1167	High profile, hand-made cap clay tile for use with Castilla pan and Toledo pan tiles. For direct adhesive set applications.
Trim Pieces	l = varies w = varies varying thickness	ASTM C 1167	Accessory trim, clay roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.



NOA No.: 13-0923.06 Expiration Date: 02/06/19 Approval Date: 02/06/14

Page 2 of 11

2.1 Manufacturing Location

2.1.1 Cucuta, Colombia

2.2 EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Redland Technologies	7161-03	Static Uplift Testing	Dec. 1991
_	Appendix III	TAS 102 & TAS 102(A)	
The Center for Applied	94-084	Static Uplift Testing	May 1994
Engineering, Inc.		TAS 101 (Mortar Set)	
The Center for Applied	94-060A	Static Uplift Testing	March, 1994
Engineering, Inc.		TAS 101 (Adhesive Set)	
The Center for Applied	25-7183-6	Static Uplift Testing	Feb. 1995
Engineering, Inc.		TAS 102	
		(2 Quik-Drive Screws,	
		Direct Deck)	
The Center for Applied	25-7183-5	Static Uplift Testing	Feb. 1995
Engineering, Inc.		TAS 102	
		(2 Quik-Drive Screws,	
		Battens)	
The Center for Applied	25-7214-1	Static Uplift Testing	March, 1995
Engineering, Inc.		TAS 102	
		(1 Quik-Drive Screw,	
		Direct Deck)	
The Center for Applied	25-7214-5	Static Uplift Testing	March, 1995
Engineering, Inc.		TAS 102	
		(1 Quik-Drive Screw,	
		Battens)	
Redland Technologies	7161-03	Wind Tunnel Testing	Dec. 1991
	Appendix II	TAS 108 (Nail-On)	
Redland Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing	Aug. 1994
		TAS 108 (Nail-On)	
Redland Technologies	P0631-01	Wind Tunnel Testing	July 1994
		TAS 108 (Mortar Set)	
Redland Technologies	P0402	Withdrawal Resistance	Sept. 1993
		Testing of screw vs. smooth	
		shank nails	
The Center for Applied	Project No. 307025	Wind Driven Rain	Oct. 1994
Engineering, Inc.	Test #MDC-77	TAS 100	
Atlanta Testing &	R1.894	Physical Properties	Aug. 1994
Engineering, Inc.	R2.894	TAS 112	
	R3.894		
Celotex Corporation	520109-1	Static Uplift Testing	Dec. 1998
Testing Service	520111-4	TAS 101	
Celotex Corporation	520191-1	Static Uplift Testing	March 1999
Testing Service		TAS 101	



NOA No.: 13-0923.06 Expiration Date: 02/06/19 Approval Date: 02/06/14 Page 3 of 11

Walker Engineering, Inc.	Evaluation Calculations	25-7094	February 1996
Walker Engineering, Inc.	Evaluation Calculations	25-7496	April 1996
Walker Engineering, Inc.	Evaluation Calculations	25-7584	December 1996
		25-7804b-8	
		25-7804-4 & 5	
		25-7848-6	
Walker Engineering, Inc.	Evaluation Calculations	25-7183	March 1995
Walker Engineering, Inc.	Evaluation Calculations	Aerodynamic Multipliers	January 2007
Walker Engineering, Inc.	Calculations	Two Patty Adhesive Set	April 1999
-		System	•
Walker Engineering, Inc.	Evaluation Calculations	Restoring Moments Due to	February 2007
,, willer Eligineering, ille.			
, w.m.v. 2.1.8.11.0 v.m.8, 11.0 v	a tarawa a a a a a a a a a a a a a a a a a	Gravity	
Nutting Engineers	130	E	January 2007
C C	130	Gravity	January 2007
Nutting Engineers		Gravity TAS 112	·
Nutting Engineers American Test Lab of	130 RT0726.01-13	Gravity TAS 112 ASTM C 1167	January 2007 08/02/13
Nutting Engineers American Test Lab of	130 RT0726.01-13 RT0624.01-13	Gravity TAS 112 ASTM C 1167 ASTM C 1167	January 2007 08/02/13 07/01/13
Nutting Engineers American Test Lab of	130 RT0726.01-13 RT0624.01-13 RT0718.01-13	Gravity TAS 112 ASTM C 1167 ASTM C 1167 ASTM C 1167	January 2007 08/02/13 07/01/13 07/26/13

3. LIMITATIONS

- **3.1** Fire classification is not part of this acceptance.
- **3.2** For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with TAS 106.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Building Code Compliance Office for review.
- **3.4** Minimum underlayments shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- **3.6** This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with the applicable Building Code.



NOA No.: 13-0923.06 Expiration Date: 02/06/19 Approval Date: 02/06/14

Page 4 of 11

4. Installation

- **4.1** Masterpiece Tile Company Inc.'s Santa Ana Mission Tile Toledo, Castilla, and Marbella Roof Tile and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119, and RAS 120.
- **4.2** Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (I x w)			
Tile Profile	Weight-W (lbf)	Length-I (ft)	Width-w (ft)
Santa Ana Mission Tile – Toledo Roof Tile	4.0	1.5	0.54
Santa Ana Mission Tile – Castilla Roof Tile	5.3	1.5	0.64
Santa Ana Mission Tile – Marbella Roof Tile	6.0	1.5	0.66
Santa Ana Mission Tile – Antigua Cap Tile	5.4	1.42	0.625

Table 2: Aerodynamic Multipliers - λ (ft³)			
Tile λ (ft³) Profile Direct Deck Application			
Santa Ana Mission Tile – Toledo Roof Tile	0.190		
Santa Ana Mission Tile – Castilla Roof Tile	0.234		
Santa Ana Mission Tile – Marbella Roof Tile	0.191		
Santa Ana Mission Tile - Castilla Pan / Antigua Cap	0.190		
Santa Ana Mission Tile - Toledo Pan / Antigua Cap	0.190		

Table 3: Restoring Moments due to Gravity - M _g (ft-lbf)						
Tile Profile	2":12"	3":12"	4":12"	5":12"	6":12"	7":12" or greater
	Direct Deck					
Toledo Roof Tile	2.88	2.84	2.78	2.72	2.64	2.56
Castilla Roof Tile	3.77	3.71	3.64	3.55	3.45	3.34
Marbella Roof Tile	4.24	4.18	4.10	4.00	3.89	3.77
Castilla Pan / Antigua Cap	3.98	3.92	3.84	3.75	3.65	3.55
Toledo Pan / Antigua Cap	3.79	3.74	3.67	3.59	3.50	3.40



NOA No.: 13-0923.06 Expiration Date: 02/06/19 Approval Date: 02/06/14 Page 5 of 11

Table 4: Attachment Resistance Expressed as a Moment - M _f (ft-lbf) for Nail-On Systems				
Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	
Santa Ana Mission	2-10d Ring Shank Nails	28.6	41.2	
Tile – Toledo,	1-10d Smooth or Screw Shank Nail	5.1	6.8	
Castilla, and	2-10d Smooth or Screw Shank Nails	6.9	9.2	
Marbella Roof Tile	1 .#8 Screw	20.7	20.7	
only.	2 .#8 Screws	43.2	43.2	
	1-10d Smooth or Screw Shank Nail (Field Clip)	23.1	23.1	
	1-10d Smooth or Screw Shank Nail (Eave Clip)	29.3	29.3	
	2-10d Smooth or Screw Shank Nails (Field Clip)	27.6	27.6	
	2-10d Smooth or Screw Shank Nails (Eave Clip)	38.1	38.1	

	nment Resistance Expressed as a Mome r Single Patty Adhesive Set Systems	nt M _f (ft-lbf)		
Tile Profile	Tile Application	Minimum Attachment Resistance		
Santa Ana Mission Tile – Toledo, Castilla, and Marbella Roof Tile	3M [™] 2-Component Foam Roof Tile Adhesive AH-160	177 ²		
only.	TileBond Roof Tile Adhesive	115 ³		
1 See manufactures component appre	oval for installation requirements.			
2 Santa Ana Mission Tile Pan installed	d with a 23 grams paddy.			
Santa Ana Mission Tile Cap installed with a 11.5 gram paddy on each edge of the tile.				
3 Santa Ana Mission Tile Pan installed with a 11.8 grams paddy.				
Santa Ana Mission Tile Cap installed	with a 11.6 gram paddy on each edge of the tile.			

Table 5(B): Attachment Resistance Expressed as a Moment M _f (ft-lbf) for Single Patty Adhesive Set Systems				
Tile Tile Application Minimum Attachment Profile Resistance				
Santa Ana Mission Tile - Castilla Pan / Antigua Cap	3M [™] 2-Component Foam Roof Tile Adhesive AH-160	142.44 ⁵		
 See manufactures component approval for installation requirements. Santa Ana Mission Pan installed with a 2" wide x 10" long paddy (approximately 34 grams). 				
Santa Ana Antigua Cap installed with a 1" wide x 10" long paddy (approximately 17 grams) on each edge of the tile.				



NOA No.: 13-0923.06 Expiration Date: 02/06/19 Approval Date: 02/06/14 Page 6 of 11

Table 5(C): Attachment Resistance Expressed as a Moment M _f (ft-lbf) for Single Patty Adhesive Set Systems				
Tile Tile Application Minimum Attachment Profile Resistance				
Santa Ana Mission Tile - Toledo Pan / Antigua Cap 3M TM 2-Component Foam Roof Tile Adhesive AH-160				
See manufactures component approval for installation requirements. Santa Ana Mission Pan installed with a 2" wide x 10" long paddy (approximately 34 grams). Santa Ana Antigua Cap installed with a 1" wide x 10" long paddy (approximately 17 grams) on each edge of the tile.				

Table 7: Attachment Resistance Expressed as a Moment - M _f (ft-lbf) for Mortar Set Systems			
Tile Profile	Tile Application	Minimum Attachment Resistance	
Santa Ana Mission Tile – Toledo, Castilla, and Marbella Roof Tile only.	Mortar Set	24.5	

5. LABELING

- **5.1** All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo as detailed below, or following statement: "Miami-Dade County Product Control Approved".
 - a. Toledo, Castilla, Marbella



MASTERPIECE BUILDING PRODUCTS, LLC'S, SANTA ANA MISSION TILE – TOLEDO, CASTILLA & MARBELLA (CUCUTA, NORTE DE SANTANDER, COLOMBIA PLANT)

LOCATED UNDERNEATH TILE CONTINUOUSLY ALONG THE CENTER

b. Santa Ana Antigua Tile

Santa Ana

MASTERPIECE BUILDING PRODUCTS LLC, SANTA ANA MISSION TILE - ANTIGUA (CUCUTA, NORTE DE SANTANDER, COLOMBIA PLANT)
LOCATED ACROSS THE TOPSIDE AT THE HEAD OF THE TILE



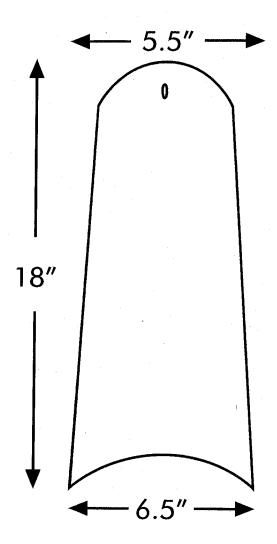
NOA No.: 13-0923.06 Expiration Date: 02/06/19 Approval Date: 02/06/14

Page 7 of 11

BUILDING PERMIT REQUIREMENTS 6.

- Application for building permit shall be accompanied by copies of the following:
 - 6.1.1 This Notice of Acceptance.
 - Any other documents required by the Building Official or applicable building code in order to 6.1.2 properly evaluate the installation of this system.

PROFILE DRAWINGS

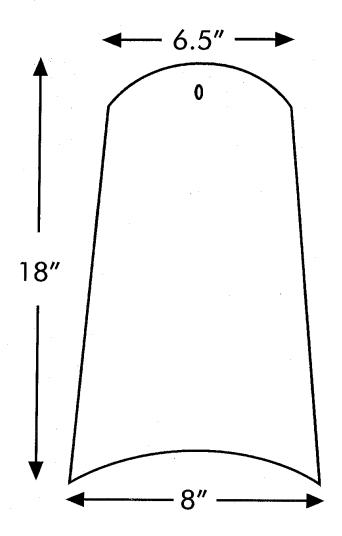


SANTA ANA MISSION TILE - TOLEDO



NOA No.: 13-0923.06 **Expiration Date: 02/06/19** Approval Date: 02/06/14

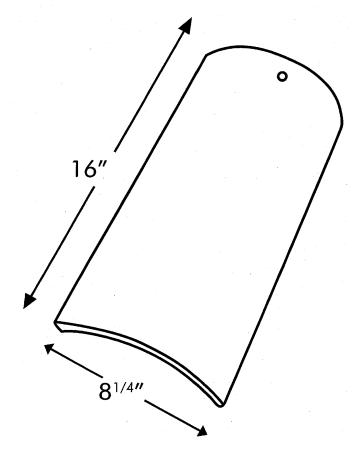
Page 8 of 11



SANTA ANA MISSION TILE – CASTILLA



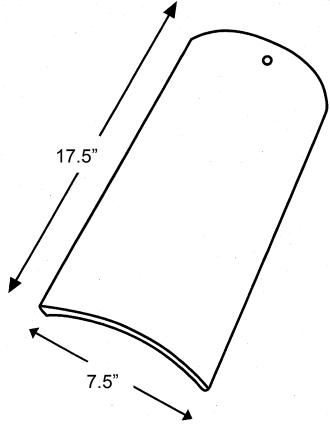
NOA No.: 13-0923.06 Expiration Date: 02/06/19 Approval Date: 02/06/14 Page 9 of 11



SANTA ANA MISSION TILE – MARBELLA



NOA No.: 13-0923.06 Expiration Date: 02/06/19 Approval Date: 02/06/14 Page 10 of 11



MASTERPIECE TILE COMPANY INC, SANTA ANA MISSION TILE – ANTIGUA

END OF THIS ACCEPTANCE



NOA No.: 13-0923.06 **Expiration Date: 02/06/19** Approval Date: 02/06/14 Page 11 of 11